Claims:

1. A *Pseudomonas putida* strain selected from the group consisting of FERM BP-08462, FERM BP-08463, FERM BP-08464, and FERM BP-08465.

2. The *Pseudomonas putida* of Claim 1, which is FERM BP-08462.

3. The *Pseudomonas putida* of Claim 1, which is FERM BP-08463.

4. The *Pseudomonas putida* of Claim 1, which is FERM BP-08464.

5. The *Pseudomonas putida* of Claim 1, which is FERM BP-08465.

6. A composition comprising the *Pseudomonas putida* of Claim 2 and a carrier.

7. A composition comprising the *Pseudomonas putida* of Claim 3 and a carrier.

8. A composition comprising the *Pseudomonas putida* of Claim 4 and a carrier.

9. A composition comprising the *Pseudomonas putida* of Claim 5 and a carrier.

10. A composition comprising one or more *Pseudomonas putida* strain selected from the group consisting of FERM BP-08462, FERM BP-08463, FERM BP-08464, and FERM BP-08465; and a carrier.

11. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 2 for a time to detoxify the industrial waste.

12. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 3 for a time to detoxify the industrial waste.

13. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 4 for a time to detoxify the industrial waste.

14. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 5 for a time to detoxify the industrial waste.

15. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the composition of Claim 10 for a time to detoxify the industrial waste.

16. A *Pseudomonas putida*, which comprises a mutation in the ribosomal S12 gene that results in the replacement of the lysine at position 88 with arginine.

17. The *Pseudomonas putida* strain of Claim 16, which is resistant to rifampicin.

18. A composition comprising the *Pseudomonas putida* strain of Claim 16 and a carrier.

19. A composition comprising the *Pseudomonas putida* strain of Claim 17 and a carrier.

20. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 16 for a time to detoxify the industrial waste.

21. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* of Claim 17 for a time to detoxify the industrial waste.

22. A method of increasing the tolerance of an antibiotic resistant *Pseudomonas putida* strain to one or more toxic organic substances, comprising culturing the *Pseudomonas putida* strain in the presence of the one or more toxic substances for a time suitable to obtain a *Pseudomonas putida* strain with increased tolerance to the one or more toxic substances relative to the *Pseudomonas putida* strain prior to the culturing.

23. The method of Claim 22, wherein the *Pseudomonas putida* strain is resistant to one or more antibiotics selected from the group consisting of streptomycin, gentamicin, rifampicin, fusidic acid, thiostrepton, and tetracycline.

24. A method of detoxifying industrial wastes of toxic organic compounds, comprising contacting the industrial wastes with the *Pseudomonas putida* strain obtained by the method of Claim 22 for a time to detoxify the industrial waste.